

SECTION 02083A

REMOVAL OF PCB AND PCB-CONTAMINATED
ITEMS AND LIQUIDS

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Prepare PCB items for transport and disposal. Ownership of PCB and PCB contaminated items and liquids shall remain with the Government.
- B. Contain all materials containing PCBs that result from performing the work except as indicated in paragraph 1.01.C.
- C. Materials containing PCBs that result from cleanup of spills caused by the contractor shall be the full responsibility of the contractor. These materials shall be contained and disposed of at the contractor's expense.

1.02 REFERENCES

- A. Environmental Protection Agency, EPA:
 - 1. Title 40 Code of Federal Regulations, Part 761, 261, 262, 263; all applicable Subparts, the most recent amendments.
- B. Occupational Safety and Health Administration, OSHA:
 - 1. Title 29 Code of Federal Regulations, Part 1910 and Part 1926; all applicable Subparts, the most recent amendments (especially 1910.120, 106, 133, 134, 144).
- C. Department of Transportation, DOT:
 - 1. Title 49 Code of Federal Regulations, Part 171, 172, 173, 177 and other applicable parts; the most recent amendments.

1.03 SPILLS

- A. Immediately report new or newly discovered existing PCB spills of any size to the Environmental Management Office, 257-7152, Contract Management, 257-2047 and Civil Engineering Service Call, 257-6764. A verbal report shall be made within one (1) hour after discovery.

- B. The Contractor shall provide and maintain on-site spill equipment sufficient in both quantity and type to contain and clean-up any spill within twenty-four (24) hours of discovery.
- C. All materials and/or surfaces contaminated with PCB spilled during the work shall be the contractor's responsibility. The contractor shall contain the spill, perform the cleanup, provide all analytical services required to verify clean-up, restore the area to as near original condition, and transport and dispose of the contaminated materials per regulations and specifications; all at no cost to the Government.

1.04 SUBMITTALS

- A. Submit a Project Work Plan for approval in accordance with Section 01300. This plan shall include the following:
 - 1. Detailed procedures for the removal, handling, packaging, transportation and disposal of PCB and PCB contaminated liquids and solid materials. Include all applicable permits, licenses, and notifications required by Federal, State and Local regulations for the transportation and disposition of wastes containing PCBs.
 - 2. A Health and Safety Plan satisfying the criteria of 29 CFR 1910.120.
 - 3. A Spill Prevention, Countermeasures and Control Plan including a Transportation and Containment Plan meeting the criteria of 40 CFR 264.50, 49 CFR, and 29 CFR 1910.120.
 - 4. A Quality Assurance Project Plan including procedures for obtaining verification samples, prevention of cross-contamination, chain-of-custody procedures and analysis.
 - 5. A detailed project schedule indicating the sequence of operations to be performed.

1.05 COORDINATION

- A. The contractor shall notify the following in writing at least ten (10) working days prior to starting work at a site:
 - 1. 88 CEG/CECC Contract Management (Project Inspector).
 - 2. 88 ABW/EMC Environmental Management (Waste Management).
- B. The names of the personnel to be notified will be given to the contractor at the pre-construction meeting.

1.06 PROTECTIVE EQUIPMENT

- A. The contractor shall provide and maintain all personal protective equipment required by 29 CFR 1910 to perform PCB removal operations. This equipment is to be disposable to the extent allowable by regulations.
 - 1. Protective equipment shall include, among other things; protective gloves, faceshields, coveralls, boots, and cartridge respirators.
 - 2. All protective equipment contaminated with PCB shall either be decontaminated in accordance with section on "EQUIPMENT DECONTAMINATION", or containerized and disposed of as PCB waste in accordance with the section on "DISPOSAL OF PCB WASTE".

1.07 DEFINITIONS

- A. POLYCHLORINATED BIPHENYL (PCB): Any chemical substance that is limited to the biphenyl molecule that has been chlorinated to varying degrees or any combination of substances which contains such substance.
- B. PCB ITEM: Any item identified to contain PCB through laboratory analysis at a concentration equal to or exceeding 500 ppm.
- C. PCB CONTAMINATED ITEM: Any item identified to contain PCB through laboratory analysis at a concentration greater than or equal to 50 ppm and less than or equal to 499 ppm; or those items the USEPA requires to be assumed at 50-499 ppm in the absence of testing.
- D. NON-PCB ITEM: Any item tested and found to contain 49 ppm PCB or less.
- E. PCB SPILL: The intentional and/or unintentional spills, leaks, and other uncontrolled discharges where the release results in any quantity of PCB, running off or about to run off the external surface of the equipment; and the contamination resulting from those releases.

PART 2 - PRODUCTS

Not Used.

PART 3 - EXECUTION

3.01 SECURITY OF SITES

- A. Secure all container/tanker fill and unloading valves prior to exiting the temporary storage and/or work site.
- B. Install self-supporting barricades and post PCB Handling warning signs advising persons to avoid entry at all sites during removal, storage or processing of PCB wastes. Establish a single entrance to the site.

3.02 SPILL CONTAINMENT

- A. Provide six mil plastic drop cloths or metallic drip pans where spillage may occur.
- B. Protect/seal all floor drains, conduits, storm drains, electric manholes and other subsurface openings within fifteen (15) feet of the work.
- C. Use absorbent material/containment booms to prevent contaminant migration should a spill occur.

3.03 EQUIPMENT DECONTAMINATION

- A. Decontaminate all nondisposable items contaminated with PCB during the cleanup prior to exiting each site. Decontaminate all solid surfaces through a double rinse wash. Cleanup of PCB will be done with a commercial/industrial liquid cleaner containing limonene as the organic solvent and an emulsifier. Apply with a portable sprayer, scrub the affected surfaces and rinse with clean water. Concurrently capture all free-flowing liquids using a wet vacuum.

3.04 PCB AND PCB-CONTAMINATED ITEMS AND LIQUIDS

- A. Drain all liquids by pump or siphon.

- B. Provide separate hoses and pumps for draining PCB and PCB-contaminated oil. Decontaminate between each use per "EQUIPMENT DECONTAMINATION" paragraph.
- C. Contain all PCB and PCB-contaminated wastes in containers/tanks approved for the storage and transportation of such wastes by DOT and USEPA.
- D. Do not place PCB wastes in containers with PCB-contaminated wastes.
- E. The intentional solidification of PCB wastes shall not be practiced.
- F. Label all PCB waste containers at the time of generation per "CONTAINER LABELLING" paragraph.

3.05 CLEANUP OF SPILLS THAT OCCUR DURING WORK ON THE CONTRACT

- A. Ensure notification is made per the "SPILLS" paragraph. Implement the immediate action requirements contained in 40 CFR 761 and commence cleanup within 24 hours of the spill.
- B. Clean all surfaces/soils to the defined standards for residential/commercial areas in accordance with 40 CFR 761.120. Include all verification sampling required and prepare a response report. This report must be submitted to the Office of Environmental Management within seven (7) working days after the completion of the clean-up.

3.06 TEMPORARY STORAGE

- A. Coordinate the temporary storage location (for PCB and PCB contaminated wastes) with the Contracting Officer.
- B. Individually date all items to show when PCB wastes were first placed into the container and when these wastes were placed in temporary storage.
- C. Install self-supporting barricades and post "Caution PCBs In Storage" signs to avoid unauthorized entry.
- D. Post a site specific spill plan satisfying the criteria of 40 CFR 761.60.
- E. Perform weekly inspections of the temporary storage sites and document the results of these inspections during the storage activities.
- F. Do not place any PCB waste in temporary storage for more than thirty (30) days. Do not relocate containers for purposes of extending the storage time.
- G. Place drip pans or six mil plastic sheeting to prevent possible seepage into the ground. Protect containers from rainwater.

3.07 PREPARATION FOR TRANSPORT OF WASTES CONTAINING PCBs

- A. All wastes containing PCBs shall be packaged for transportation in strict accordance with all applicable regulations found in 49 and 40 CFR.
 - 1. Contain all liquids in 30 gallon or 55 gallon closed head steel shipping drums. The Department of Transportation approved drums shall meet DOT 17E specifications and be in good condition. Do not fill over 90% of drum capacity. Bulk transportation may be accomplished using tankers authorized for PCB liquid waste transit by DOT.

2. Contain all solid PCB material (used absorbent material, disposable clothing, removed soil, disposable tools, etc.) in 30 gallon or 55 gallon open head steel shipping drums. The Department of Transportation approved drums shall meet DOT 17C specifications and must be in good condition.
- B. Do not place non-PCB oils or items in containers with PCB oils or items. Do not place PCB oils or items in containers with PCB-contaminated oils or items.
 - C. Identify each item individually with the following.
 1. The appropriate PCB label per Figure 1, 2, 3 or 4.
 2. Refer to "TEMPORARY STORAGE" paragraphs of this spec. section.
 - D. EM Certification. Environmental Management(EM) will conduct a site inspection required for certification of items to be transported and disposed. EM will provide an AFLC Form 165, Hazardous Waste Label, to be applied to each item prior to movement.
 - E. The Contractor shall be responsible for repackaging any containers that are considered by EM to be unsuitable for shipment.

3.08 CONTAINER LABELING

- A. Label (as shown in Figure 1, 2, 3, or 4) all equipment, drums, etc. according to the PCB concentration of the oil, material contained or the oil removed from the item. Affix the label prior to working on or utilizing the item. The following formats shall be used for labeling:
 1. PCB Items or containers containing PCBs equal to or greater than 500 ppm.
 - (a) Large PCB Mark--ML. Mark ML shall be as shown in Figure 1, letters and striping shall be on a yellow background and shall be sufficiently durable to equal or exceed the life (including storage for disposal) of the PCB Article, PCB Equipment, or PCB Container. The size of the mark shall be at least 15.25 cm (6 inches) on each side. If the PCB Article or PCB Equipment is too small to accommodate this size, the mark may be reduced in size proportionately down to a minimum of 5 cm (2 inches) on each side.
 - (b) Small PCB Mark--Ms. Mark Ms shall be as shown in Figure 2, letters and striping on a yellow background and shall be sufficiently durable to equal or exceed the life (including storage for disposal) of the PCB Article, PCB Equipment, or PCB Container. The mark shall be a rectangle 2.5 by 5 cm (1 inch by 2 inches). If the PCB Article or PCB Equipment is too small to accommodate this size, the mark may be reduced in size proportionately down to a minimum of 1 by 2 cm (0.4 by 0.8 inches).
 2. PCB Contaminated Items or Containers containing PCBs in concentrations between 50 and 499 ppm.
 - (a) PCB Contaminated Mark. Mark shall be as shown in Figure 3, letters and striping on a yellow background and shall be sufficiently durable to equal or exceed the life (including storage for disposal) of the PCB Contaminated Article, PCB Contaminated Equipment, or Container of PCB Contaminated oil. The mark shall be a rectangle 10 by 10 cm (4 inch by 4 inches). If the PCB Contaminated Article or PCB Contaminated Equipment is too small to accommodate this size, the mark may be reduced in size proportionately down to a minimum of 5 by 5 cm (2 by 2 inches).
 3. Non-PCB Items containing PCB in concentrations equal to or less than 49 ppm.

(a) Non-PCB Mark This mark shall be as shown in Figure 4, letters and striping on a blue background and shall be sufficiently durable to exceed the time the Non-PCB Article, Equipment, or Container is stored on Wright-Patterson Air Force Base.

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/          CAUTION          /
/        contains          /
/        PCBs              /
/    (Polychlorinated Biphenyls) /
/  A toxic environmental contaminant requiring /
/ special handling and disposal in accordance with /
/ U.S. Environmental Protection Agency Regulations /
/ 40 CFR 761 - For Disposal Information contact /
/ the nearest U.S. E.P.A. Office. /
/ ***** /
/ /
/ In case of accident or spill, call toll free the U.S./
/ Coast Guard National Response Center /
/ 1-800-424-8802 /
/ /
/ Also Contact /
/ Tel. No. /
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Figure 1

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////////////////////////////////////
/  CAUTION contains PCBs  /
/ (Polychlorinated Biphenyls) /
/ /
/ FOR PROPER DISPOSAL INFORMATION /
/ CONTACT U.S. ENVIRONMENTAL /
/ PROTECTION AGENCY /
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Figure 2

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////////////////////////////////////
/                               /
/   PCB CONTAMINATED         /
/                               /
/   THE LIQUID IN THIS       /
/   CONTAINER IS LESS        /
/   THAN 500 PPM PCB         /
/   BUT EQUAL TO             /
/   OR GREATER THAN          /
/   50 PPM PCB               /
/                               /
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Figure 3

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///////////////// C E R T I F I E D ///////////////////
/
/   THE DIELECTRIC FLUID IN THIS UNIT           /
/   HAS BEEN TESTED TO DETERMINE THE             /
/   AMOUNT OF POLYCHLORINATED BIPHENYL(S)       /
/   (PCB CONTENT). WE CERTIFY THAT BASED        /
/   ON THE TEST SAMPLE, THE FLUID CONTAINED     /
/   LESS THAN 50 PPM PCB AND IS THEREFORE       /
/   CLASSIFIED A NON-PCB AS DEFINED IN THE      /
/   AUG 25, 1982, VOL. 47 NO. 165 OF THE        /
/   FEDERAL REGISTER.                            /
/
///////////////// C E R T I F I E D ///////////////////

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Figure 4

END OF SECTION